

EP



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/658,745

DATE: 09/29/2003

TIME: 15:05:10

Input Set : N:\CrF3\RULE60\10658745.txt
 Output Set: N:\CRF4\09292003\J658745.raw

ENTERED

3 <110> APPLICANT: Biogen, Inc.
 4 Burkly, Linda
 5 Wang, Li Chun
 7 <120> TITLE OF INVENTION: METHODS OF MODULATING LIPID METABOLISM AND STORAGE
 9 <130> FILE REFERENCE: A069PCT
 11 <140> CURRENT APPLICATION NUMBER: 10/658,745
 12 <141> CURRENT FILING DATE: 2003-09-08
 15 <150> PRIOR APPLICATION NUMBER: 09/704,917
 16 <151> PRIOR FILING DATE: 2000-11-02
 18 <150> PRIOR APPLICATION NUMBER: PCT/US00/05662
 19 <151> PRIOR FILING DATE: 2000-03-03
 22 <150> PRIOR APPLICATION NUMBER: 60/122,640
 23 <151> PRIOR FILING DATE: 1999-03-03
 25 <150> PRIOR APPLICATION NUMBER: 60/124,446
 26 <151> PRIOR FILING DATE: 1999-03-15
 28 <160> NUMBER OF SEQ ID NOS: 22
 30 <170> SOFTWARE: PatentIn Ver. 2.1
 32 <210> SEQ ID NO: 1
 33 <211> LENGTH: 1277
 34 <212> TYPE: DNA
 35 <213> ORGANISM: Gallus sp.
 37 <220> FEATURE:
 38 <221> NAME/KEY: CDS
 39 <222> LOCATION: (1)..(1275)
 41 <400> SEQUENCE: 1
 42 atg gtc gaa atg ctg ctg ttg aca aga att ctc ttg gtg ggc ttc atc 48
 43 Met Val Glu Met Leu Leu Leu Thr Arg Ile Leu Leu Val Gly Phe Ile
 44 1 5 10 15
 46 tgc gct ctt tta gtc tcc tct ggg ctg act tgt gga cca ggc agg ggc 96
 47 Cys Ala Leu Leu Val Ser Ser Gly Leu Thr Cys Gly Pro Gly Arg Gly
 48 20 25 30
 50 att gga aaa agg agg cac ccc aaa aag ctg acc ccg tta gcc tat aag 144
 51 Ile Gly Lys Arg Arg His Pro Lys Lys Leu Thr Pro Leu Ala Tyr Lys
 52 35 40 45
 54 cag ttt att ccc aat gtg gca gag aag acc cta ggg gcc agt gga aga 192
 55 Gln Phe Ile Pro Asn Val Ala Glu Lys Thr Leu Gly Ala Ser Gly Arg
 56 50 55 60
 58 tat gaa ggg aag atc aca aga aac tcc gag aga ttt aaa gaa cta acc 240
 59 Tyr Glu Gly Lys Ile Thr Arg Asn Ser Glu Arg Phe Lys Glu Leu Thr
 60 65 70 75 80
 62 cca aat tac aac cct gac att att ttt aag gat gaa gag aac acg gga 288
 63 Pro Asn Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly
 64 85 90 95

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/658,745

DATE: 09/29/2003
TIME: 15:05:10

Input Set : N:\CrF3\RULE60\10658745.txt
Output Set: N:\CRF4\09292003\J658745.raw

66	gct	gac	aga	ctg	atg	act	cag	cgc	tgc	aag	gac	aag	ctg	aat	gcc	ctg	336
67	Ala	Asp	Arg	Leu	Met	Thr	Gln	Arg	Cys	Lys	Asp	Lys	Leu	Asn	Ala	Leu	
68				100					105					110			
70	gcg	atc	tcg	gtg	atg	aac	cag	tgg	ccc	ggg	gtg	aag	ctg	cgg	gtg	acc	384
71	Ala	Ile	Ser	Val	Met	Asn	Gln	Trp	Pro	Gly	Val	Lys	Leu	Arg	Val	Thr	
72				115					120				125				
74	gag	ggc	tgg	gac	gag	gat	ggc	cat	cac	tcc	gag	gaa	tcg	ctg	cac	tac	432
75	Glu	Gly	Trp	Asp	Glu	Asp	Gly	His	His	Ser	Glu	Glu	Ser	Leu	His	Tyr	
76				130					135				140				
78	gag	ggt	cgc	gcc	gtg	gac	atc	acc	acg	tcg	gat	cg	gac	cgc	agc	aag	480
79	Glu	Gly	Arg	Ala	Val	Asp	Ile	Thr	Thr	Ser	Asp	Arg	Asp	Arg	Ser	Lys	
80	145				150					155				160			
82	tac	gga	atg	ctg	gcc	cgc	ctc	gcc	gtc	gag	gcc	ggc	ttc	gac	tgg	gtc	528
83	Tyr	Gly	Met	Leu	Ala	Arg	Leu	Ala	Val	Glu	Ala	Gly	Phe	Asp	Trp	Val	
84				165					170				175				
86	tac	tac	gag	tcc	aag	gcg	cac	atc	cac	tcc	gtc	aaa	gca	gaa	aac	576	
87	Tyr	Tyr	Glu	Ser	Ala	His	Ile	His	Cys	Ser	Val	Lys	Ala	Glu	Asn		
88				180					185				190				
90	tca	gtg	gca	gcg	aaa	tca	gga	ggc	tgc	ttc	cct	ggc	tca	gcc	aca	gtg	624
91	Ser	Val	Ala	Ala	Lys	Ser	Gly	Gly	Cys	Phe	Pro	Gly	Ser	Ala	Thr	Val	
92				195					200				205				
94	cac	ctg	gag	cat	gga	ggc	acc	aag	ctg	gtg	aag	gac	ctg	agc	cct	ggg	672
95	His	Leu	Glu	His	Gly	Gly	Thr	Lys	Leu	Val	Lys	Asp	Leu	Ser	Pro	Gly	
96				210					215				220				
98	gac	cgc	gtg	ctg	gct	gct	gac	gcg	gac	ggc	cg	ctg	ctc	tac	agt	gac	720
99	Asp	Arg	Val	Leu	Ala	Ala	Asp	Ala	Asp	Gly	Arg	Leu	Leu	Tyr	Ser	Asp	
100	225				230					235				240			
102	ttc	ctc	acc	ttc	ctc	gac	cg	atg	gac	agc	tcc	cga	aag	ctc	ttc	tac	768
103	Phe	Leu	Thr	Phe	Leu	Asp	Arg	Met	Asp	Ser	Ser	Arg	Lys	Leu	Phe	Tyr	
104				245					250				255				
106	gtc	atc	gag	acg	cg	cag	ccc	cg	gg	ctg	ct	ac	cg	g	cc	681	
107	Val	Ile	Glu	Thr	Arg	Gln	Pro	Arg	Ala	Arg	Leu	Leu	Leu	Thr	Ala	Ala	
108				260					265				270				
110	cac	ctg	ctc	ttt	gtg	gcc	ccc	cag	cac	aac	cag	tcg	gag	gcc	aca	ggg	864
111	His	Leu	Leu	Phe	Val	Ala	Pro	Gln	His	Asn	Gln	Ser	Glu	Ala	Thr	Gly	
112				275					280				285				
114	tcc	acc	agt	ggc	cag	ggc	ctc	ttc	gcc	agc	aac	gtg	aag	cct	ggc	caa	912
115	Ser	Thr	Ser	Gly	Gln	Ala	Leu	Phe	Ala	Ser	Asn	Val	Lys	Pro	Gly	Gln	
116				290					295				300				
118	cgt	gtc	tat	gtg	ctg	ggc	gag	ggc	gg	cag	cg	ctg	ctg	ccg	g	tct	960
119	Arg	Val	Tyr	Val	Leu	Gly	Gly	Gly	Gln	Gln	Leu	Leu	Pro	Ala	Ser		
120	305				310					315				320			
122	gtc	cac	agc	gtc	tca	ttt	cg	gag	gg	gt	cc	gg	cc	tac	gg	cc	1008
123	Val	His	Ser	Val	Ser	Leu	Arg	Glu	Ala	Ser	Gly	Ala	Tyr	Ala	Pro		
124				325					330				335				
126	ctc	acc	gcc	cag	ggc	acc	atc	ctc	atc	aac	cg	gt	tt	gg	cc	ttc	1056
127	Leu	Thr	Ala	Gln	Gly	Thr	Ile	Leu	Ile	Asn	Arg	Val	Leu	Ala	Ser	Cys	
128				340					345				350				
130	tac	gcc	gtc	atc	gag	gag	cac	agt	tgg	gg	cc	at	tgg	gg	cc	cca	1104

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/658,745

DATE: 09/29/2003
TIME: 15:05:10

Input Set : N:\CrF3\RULE60\10658745.txt
Output Set: N:\CRF4\09292003\J658745.raw

131	Tyr Ala Val Ile Glu Glu His Ser Trp Ala His Trp Ala Phe Ala Pro			
132	355	360	365	
134	ttc cgc ttg gct cag ggg ctg ctg gcc gcc ctc tgc cca gat ggg gcc		1152	
135	Phe Arg Leu Ala Gln Gly Leu Leu Ala Ala Leu Cys Pro Asp Gly Ala			
136	370	375	380	
138	atc cct act gcc gcc acc acc acc act ggc atc cat tgg tac tca cgg		1200	
139	Ile Pro Thr Ala Ala Thr Thr Thr Gly Ile His Trp Tyr Ser Arg			
140	385	390	395	400
142	ctc ctc tac cgc atc ggc agc tgg gtg ctg gat ggt gac gcg ctg cat		1248	
143	Leu Leu Tyr Arg Ile Gly Ser Trp Val Leu Asp Gly Asp Ala Leu His			
144	405	410	415	
146	ccg ctg ggc atg gtg gca ccg gcc agc tg		1277	
147	Pro Leu Gly Met Val Ala Pro Ala Ser			
148	420	425		
150	<210> SEQ ID NO: 2			
151	<211> LENGTH: 1190			
152	<212> TYPE: DNA			
153	<213> ORGANISM: Murine sp.			
155	<220> FEATURE:			
156	<221> NAME/KEY: CDS			
157	<222> LOCATION: (1)..(1188)			
159	<400> SEQUENCE: 2			
160	atg gct ctg ccg gcc agt ctg ttg ccc ctg tgc tgc ttg gca ctc ttg		48	
161	Met Ala Leu Pro Ala Ser Leu Leu Pro Leu Cys Cys Leu Ala Leu Leu			
162	1 5 10 15			
164	gca cta tct gcc cag agc tgc ggg ccg ggc cga gga ccg gtt ggc cgg		96	
165	Ala Leu Ser Ala Gln Ser Cys Gly Pro Gly Arg Gly Pro Val Gly Arg			
166	20 25 30			
168	cgg cgt tat gtg cgc aag caa ctt gtg cct ctg cta tac aag cag ttt		144	
169	Arg Arg Tyr Val Arg Lys Gln Leu Val Pro Leu Tyr Lys Gln Phe			
170	35 40 45			
172	gtg ccc agt atg ccc gag cgg acc ctg ggc gcg agt ggg cca gcg gag		192	
173	Val Pro Ser Met Pro Glu Arg Thr Leu Gly Ala Ser Gly Pro Ala Glu			
174	50 55 60			
176	ggg agg gta aca agg ggg tcg gag cgc ttc cgg gac ctc gta ccc aac		240	
177	Gly Arg Val Thr Arg Gly Ser Glu Arg Phe Arg Asp Leu Val Pro Asn			
178	65 70 75 80			
180	tac aac ccc gac ata atc ttc aag gat gag gag aac agc ggc gca gac		288	
181	Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Ser Gly Ala Asp			
182	85 90 95			
184	cgc ctg atg aca gag cgt tgc aaa gag cgg gtg aac gct cta gcc atc		336	
185	Arg Leu Met Thr Glu Arg Cys Lys Glu Arg Val Asn Ala Leu Ala Ile			
186	100 105 110			
188	gcg gtg atg aac atg tgg ccc gga gta cgc cta cgt gtg act gaa ggc		384	
189	Ala Val Met Asn Met Trp Pro Gly Val Arg Leu Arg Val Thr Glu Gly			
190	115 120 125			
192	tgg gac gag gac ggc cac cac gca cag gat tca ctc cac tac gaa ggc		432	
193	Trp Asp Glu Asp Gly His His Ala Gln Asp Ser Leu His Tyr Glu Gly			
194	130 135 140			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/658,745

DATE: 09/29/2003
TIME: 15:05:10

Input Set : N:\Crf3\RULE60\10658745.txt
Output Set: N:\CRF4\09292003\J658745.raw

196	cgt	gcc	ttg	gac	atc	acc	acg	tct	gac	cgt	aat	aag	tat	ggt	480		
197	Arg	Ala	Leu	Asp	Ile	Thr	Thr	Ser	Asp	Arg	Asp	Arg	Asn	Lys	Tyr	Gly	
198	145				150				155				160				
200	ttg	ttg	gcg	cgc	cta	gct	gtg	gaa	gcc	gga	ttc	gac	tgg	gtc	tac	tac	528
201	Leu	Leu	Ala	Arg	Leu	Ala	Val	Glu	Ala	Gly	Phe	Asp	Trp	Val	Tyr	Tyr	
202					165				170				175				
204	gag	tcc	cgc	aac	cac	atc	cac	gta	tcg	gtc	aaa	gct	gat	aac	tca	ctg	576
205	Glu	Ser	Arg	Asn	His	Ile	His	Val	Ser	Val	Lys	Ala	Asp	Asn	Ser	Leu	
206					180				185			190					
208	gcg	gtc	cga	gcc	gga	ggc	tgc	ttt	ccg	gga	aat	gcc	acg	gtg	cgc	ttg	624
209	Ala	Val	Arg	Ala	Gly	Gly	Cys	Phe	Pro	Gly	Asn	Ala	Thr	Val	Arg	Leu	
210		195				200				205							
212	cgg	agc	gac	gaa	cgg	aag	ggg	ctg	agg	gaa	cta	cat	cgt	ggt	gac	tgg	672
213	Arg	Ser	Gly	Glu	Arg	Lys	Gly	Leu	Arg	Glu	Leu	His	Arg	Gly	Asp	Trp	
214		210				215				220							
216	gta	ctg	gcc	gct	gat	gca	gcg	ggc	cga	gtg	gta	ccc	acg	cca	gtg	ctg	720
217	Val	Leu	Ala	Ala	Asp	Ala	Ala	Gly	Arg	Val	Val	Pro	Thr	Pro	Val	Leu	
218		225				230				235			240				
220	ctc	ttc	ctg	gac	cgg	gat	ctg	cag	cgc	cgc	gcc	tcg	ttc	gtg	gtc	768	
221	Leu	Phe	Leu	Asp	Arg	Asp	Leu	Gln	Arg	Arg	Ala	Ser	Phe	Val	Ala	Val	
222					245				250			255					
224	gag	acc	gag	cgg	cct	ccg	cgc	aaa	ctg	ttg	ctc	aca	ccc	tgg	cat	ctg	816
225	Glu	Thr	Glu	Arg	Pro	Pro	Arg	Lys	Leu	Leu	Leu	Thr	Pro	Trp	His	Leu	
226					260				265			270					
228	gtg	ttc	gct	gct	cgc	ggg	cca	gcg	cct	gct	cca	ggt	gac	ttt	gca	ccg	864
229	Val	Phe	Ala	Ala	Arg	Gly	Pro	Ala	Pro	Ala	Pro	Gly	Asp	Phe	Ala	Pro	
230		275				280				285							
232	gtg	ttc	gcg	cgc	cgc	tta	cgt	gct	ggc	gac	tcg	gtg	ctg	gct	ccc	ggc	912
233	Val	Phe	Ala	Arg	Arg	Leu	Arg	Ala	Gly	Asp	Ser	Val	Leu	Ala	Pro	Gly	
234		290				295				300							
236	ggg	gac	gcg	ctc	cag	ccg	gcg	gtc	gcc	cgc	gtg	gct	ggc	cgc	gag	gaa	960
237	Gly	Asp	Ala	Leu	Gln	Pro	Ala	Arg	Val	Ala	Arg	Val	Ala	Arg	Glu	Glu	
238		305				310				315			320				
240	gcc	gtg	gac	gtg	ttc	gca	ccg	ctc	act	gcg	cac	ggg	acg	ctg	ctg	gtc	1008
241	Ala	Val	Gly	Val	Phe	Ala	Pro	Leu	Thr	Ala	His	Gly	Thr	Leu	Leu	Val	
242					325				330			335					
244	aac	gac	gtc	ctc	gcc	tcc	tgc	tac	gct	gtt	cta	gag	agt	cac	cag	tgg	1056
245	Asn	Asp	Val	Leu	Ala	Ser	Cys	Tyr	Ala	Val	Leu	Glu	Ser	His	Gln	Trp	
246					340				345			350					
248	gcc	cac	cgc	gcc	ttc	gcc	cct	ttg	cg	ctg	cac	gct	ctc	ggg	gct		1104
249	Ala	His	Arg	Ala	Phe	Ala	Pro	Leu	Arg	Leu	Leu	His	Ala	Leu	Gly	Ala	
250		355				360				365							
252	ctg	ctc	cct	ggg	ggt	gca	gtc	cag	ccg	act	ggc	atg	cat	tgg	tac	tct	1152
253	Leu	Leu	Pro	Gly	Gly	Ala	Val	Gln	Pro	Thr	Gly	Met	His	Trp	Tyr	Ser	
254		370				375				380							
256	cgc	ctc	ctt	tac	cgc	ttg	gcc	gag	gag	tta	atg	ggc	tg				1190
257	Arg	Leu	Leu	Tyr	Arg	Leu	Ala	Glu	Glu	Leu	Met	Gly					
258		385				390				395							
260	<210>	SEQ	ID	NO:	3												

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/658,745

DATE: 09/29/2003
TIME: 15:05:10

Input Set : N:\Crf3\RULE60\10658745.txt
Output Set: N:\CRF4\09292003\J658745.raw

261 <211> LENGTH: 1281
 262 <212> TYPE: DNA
 263 <213> ORGANISM: Murine sp.
 265 <220> FEATURE:
 266 <221> NAME/KEY: CDS
 267 <222> LOCATION: (1)..(1233)
 269 <400> SEQUENCE: 3
 270 atg tct ccc gcc tgg ctc cgg ccc cga ctg cgg ttc tgt ctg ttc ctg 48
 271 Met Ser Pro Ala Trp Leu Arg Pro Arg Leu Arg Phe Cys Leu Phe Leu
 272 1 5 10 15
 274 ctg ctg ctg ctt ctg gtg ccg gcg gcg cgg ggc tgc ggg ccg ggc cgg 96
 275 Leu Leu Leu Leu Val Pro Ala Ala Arg Gly Cys Gly Pro Gly Arg
 276 20 25 30
 278 gtg gtg ggc agc cgc cgg agg ccg cct cgc aag ctc gtg cct ctt gcc 144
 279 Val Val Gly Ser Arg Arg Pro Pro Arg Lys Leu Val Pro Leu Ala
 280 35 40 45
 282 tac aag cag ttc agc ccc aac gtg ccg gag aag acc ctg ggc gcc agc 192
 283 Tyr Lys Gln Phe Ser Pro Asn Val Pro Glu Lys Thr Leu Gly Ala Ser
 284 50 55 60
 286 ggg cgc tac gaa ggc aag atc gcg cgc agc tct gag cgc ttc aaa gag 240
 287 Gly Arg Tyr Glu Gly Lys Ile Ala Arg Ser Ser Glu Arg Phe Lys Glu
 288 65 70 75 80
 290 ctc acc ccc aac tac aat ccc gac atc atc ttc aag gac gag aac 288
 291 Leu Thr Pro Asn Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn
 292 85 90 95
 294 acg ggt gcc gac cgc ctc atg acc cag cgc tgc aag gac cgt ctg aac 336
 295 Thr Gly Ala Asp Arg Leu Met Thr Gln Arg Cys Lys Asp Arg Leu Asn
 296 100 105 110
 298 tca ctg gcc atc tct gtc atg aac cag tgg cct ggt gtg aaa ctg cgg 384
 299 Ser Leu Ala Ile Ser Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg
 300 115 120 125
 302 gtg acc gaa ggc cgg gat gaa gat ggc cat cac tca gag gag tct tta 432
 303 Val Thr Glu Gly Arg Asp Glu Asp Gly His His Ser Glu Glu Ser Leu
 304 130 135 140
 306 cac tat gag ggc cgc gcg gtg gat atc acc acc tca gac cgt gac cga 480
 307 His Tyr Glu Gly Arg Ala Val Asp Ile Thr Thr Ser Asp Arg Asp Arg
 308 145 150 155 160
 310 aat aag tat gga ctg ctg gcg tta gca gtg gag gcc ggc ttc gac 528
 311 Asn Lys Tyr Gly Leu Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp
 312 165 170 175
 314 tgg gtg tat tac gag tcc aag gcc cac gtg cat tgc tct gtc aag tct 576
 315 Trp Val Tyr Tyr Glu Ser Lys Ala His Val His Cys Ser Val Lys Ser
 316 180 185 190
 318 gag cat tcg gcc gct gcc aag aca ggt ggc tgc ttt cct gcc gga gcc 624
 319 Glu His Ser Ala Ala Lys Thr Gly Gly Cys Phe Pro Ala Gly Ala
 320 195 200 205
 322 cag gtg cgc cta gag aac ggg gag cgt gtg gcc ctg tca gct gta aag 672
 323 Gln Val Arg Leu Glu Asn Gly Glu Arg Val Ala Leu Ser Ala Val Lys
 324 210 215 220

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/29/2003
PATENT APPLICATION: US/10/658,745 TIME: 15:05:11

Input Set : N:\CrF3\RULE60\10658745.txt
Output Set: N:\CRF4\09292003\J658745.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; N Pos. 1387,1388,1389

Seq#: 6; Xaa Pos. 463

Seq#: 15; Xaa Pos. 463

Seq#:21; Xaa Pos. 7, 9, 44, 85, 93, 98, 112, 132, 137, 139, 181, 183, 185, 186, 189, 191

Seq#:21, Xaa Pos. 196,200,206,207,209,211,212,216,217,219

Seq#:21: Xaa Pos. 7,8,9,12,13,14,17,19,22,27,29,30,31,33,40,41,44,45,46,48

Seq#:22: Xaa POS. 7,8,9,12,13,14,17,19,22,27,29,30,31,33,34,36,41,44,45,46,
Seq#:22: Xaa Pos. 53,54,71,79,83,84,85,87,95,100,107,114,115,116,125,134

Seq#:22, Xaa POS: 33,34,71,79,83,84,85,87,93,100,101,114,115,116,123,134
Seq#:22: Xaa Pos: 135-139-141-157-158-160-162-166-167

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/658,745

DATE: 09/29/2003
TIME: 15:05:11

Input Set : N:\Crf3\RULE60\10658745.txt
Output Set: N:\CRF4\09292003\J658745.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:6; N Pos. 1387,1388,1389
Seq#:6; Xaa Pos. 463
Seq#:15; Xaa Pos. 463
Seq#:21; Xaa Pos. 7,9,44,85,93,98,112,132,137,139,181,183,185,186,189,191
Seq#:21; Xaa Pos. 196,200,206,207,209,211,212,216,217,219
Seq#:22; Xaa Pos. 7,8,9,12,13,14,17,19,22,27,29,30,31,33,40,41,44,45,46,48
Seq#:22; Xaa Pos. 53,54,71,79,83,84,85,87,95,100,107,114,115,116,125,134
Seq#:22; Xaa Pos. 135,139,141,157,158,160,162,166,167

VERIFICATION SUMMARY DATE: 09/29/2003
PATENT APPLICATION: US/10/658,745 TIME: 15:05:11

Input Set : N:\Crf3\RULE60\10658745.txt
Output Set: N:\CRF4\09292003\J658745.raw

L:742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:1344
M:341 Repeated in SeqNo=6
L:1627 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:15
L:1627 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:15
L:1627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:448
L:2228 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:21
L:2228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
M:341 Repeated in SeqNo=21
L:2461 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:22
L:2461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
M:341 Repeated in SeqNo=22